

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

11. (Currently Amended) A radio transmission apparatus comprising:

a coder that performs error correction coding of input data including a plurality of bits;

an interleaver that performs interleaving of input data including a plurality of said bits coded by said coder; and

a rate matcher that comprises a repeater and a puncturer, wherein said rate matcher alternatively selects between (i) employing said repeater to repeat a part of said bits interleaved by said interleaver and (ii) employing said puncturer to puncture a part of the bits interleaved by said interleaver.

12. (Currently Amended) The radio transmission apparatus according to claim 11, ~~further comprising a wherein said coder that performs said error correction coding of said input data to provide error correction coded data, wherein, after said error correction coding by said coder, and~~ said interleaver performs the interleaving of the error correction coded data.

13. (Previously Presented) The radio transmission apparatus according to claim 11, wherein said repeat and said puncture of the part of the bits are performed at regular intervals.

14-18. (Canceled).

19. (Currently Amended) A radio transmission method comprising:

(a) performing error correction coding of input data including a plurality of bits;

~~(a) (b) performing interleaving of input data including a plurality of said bits coded in step (a);~~

~~(b) (c) employing a rate matcher that comprises a repeater and a puncturer to alternatively select between (i) using said repeater to repeat a part of bits interleaved in step (a) (b) and (ii) using said puncturer to puncture a part of the bits interleaved in step (a) (b); and~~

~~(c) (d) transmitting data including bits provided by said rate matcher in step (b) (c).~~

20. (Previously Presented) A radio reception method comprising:

(a) receiving data including a plurality of bits transmitted by the radio transmission method of claim 19;

(b) employing a second rate matcher that comprises a second repeater and a second puncturer to alternatively select between (i) using said second repeater to repeat bits punctured by said puncturer employed in said radio transmission method and (ii) using said second puncturer to puncture bits repeated by said repeater employed in said radio transmission method; and

(c) performing deinterleaving of data including bits provided by said second rate matcher in step (b), in accordance with the interleaving performed in said radio transmission apparatus.

21. (Previously Presented) The radio transmission apparatus according to claim 11, wherein said rate matcher performs adjustment of a length of data interleaved by said interleaver.

22. (Previously Presented) The radio transmission apparatus according to claim 11, further comprising a transmitter that transmits data including bits provided by said rate matcher.

23. (Currently Amended) A radio transmission apparatus comprising:

a coder that performs error correction coding of input data including a plurality of bits;

an interleaver that performs interleaving of input data including a plurality of said bits coded by said coder;

a rate matcher that repeats a part of bits interleaved by said interleaver.

24. (Currently Amended) The radio transmission apparatus according to claim 23, ~~further comprising a wherein said~~ coder that performs said error correction coding of said input data to provide error correction coded data, ~~wherein, after said error correction coding by said coder, and~~ said interleaver performs said interleaving of the error correction coded data.

25. (Previously Presented) The radio transmission apparatus according to claim 23, wherein said rate matcher repeats said part of bits at regular intervals.

26-30. (Canceled).

31. (Currently Amended) A radio transmission method comprising:

(a) performing error correction coding of input data including a plurality of bits;

~~(a)~~ (b) performing interleaving of input data including a plurality of said bits coded in step (a);

~~(b)~~ (c) employing a rate matcher that repeats a part of bits interleaved in step (a) (b); and

~~(c)~~ (d) transmitting data including bits provided by said rate matcher in step ~~(b)~~ (c).

32. (Previously Presented) A radio reception method comprising:

(a) receiving data including a plurality of bits transmitted by the radio transmission method of claim 31;

(b) employing a second rate matcher that punctures bits repeated by said rate matcher employed in said radio transmission method; and

(c) performing deinterleaving of data including bits provided by said second rate matcher in step (b), in accordance with the interleaving performed in said radio transmission apparatus.

33. (Previously Presented) The radio transmission apparatus according to claim 23, wherein said rate matcher performs adjustment of a length of data interleaved by said interleaver.

34. (Previously Presented) A radio transmission apparatus according to claim 23, further comprising a transmitter that transmits data including bits provided by said rate matcher.

35. (Previously Presented) A radio reception apparatus comprising:

a receiver that receives data including a plurality of bits transmitted from the radio transmission apparatus of claim 22;

a second rate matcher that comprises a second repeater and a second puncturer, wherein said second rate matcher alternatively selects between (i) employing said second repeater to increase bits punctured by said puncturer of said radio transmission apparatus and (ii) employing said second puncturer to puncture bits repeated by said repeater of said radio transmission apparatus; and

a deinterleaver that performs deinterleaving of data including bits provided by said rate matcher of said radio reception apparatus, in accordance with the interleaving performed in said radio transmission apparatus.

36. (Previously Presented) A communication terminal apparatus comprising the radio transmission apparatus of claim 22.

37. (Previously Presented) A communication terminal apparatus comprising the radio reception apparatus of claim 35.

38. (Previously Presented) A base station apparatus comprising the radio transmission apparatus of claim 22.

39. (Previously Presented) A base station apparatus comprising the radio reception apparatus of claim 35.

40. (Previously Presented) A radio reception apparatus comprising:

a receiver that receives data including a plurality of bits transmitted from the radio transmission apparatus of claim 34;

a second rate matcher that puncture bits repeated by said repeater of said radio transmission apparatus; and

a deinterleaver that performs deinterleaving of data including bits provided by said second rate matcher, in accordance with the interleaving performed in said radio transmission apparatus.

41. (Previously Presented) A communication terminal apparatus comprising the radio transmission apparatus of claim 34.

42. (Previously Presented) A communication terminal apparatus comprising the radio reception apparatus of claim 40.

43. (Previously Presented) A base station apparatus comprising the radio transmission apparatus of claim 34.

44. (Previously Presented) A base station apparatus comprising the radio reception apparatus of claim 40.